

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 April 2001 (19.04.2001)

PCT

(10) International Publication Number
WO 01/28141 A1

(51) International Patent Classification⁶: **H04H 1/08**,
1/00, G11B 7/00

(21) International Application Number: PCT/US00/10823

(22) International Filing Date: 20 April 2000 (20.04.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/414,710 8 October 1999 (08.10.1999) US
09/522,322 9 March 2000 (09.03.2000) US

(71) Applicant (for all designated States except US):
KEEN.COM [US/US]; 62 1st Street, 4th Floor, San
Francisco, CA 94105 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FABER, Scott**

[US/US]; 678 Ray Street, Manchester, NH 03104 (US).
VAN DER LINDEN, Sean [AU/CA]; 2090 Pacific Avenue
#602, San Francisco, CA 94109 (US). **LURIE, Steven,**
Ivan [US/US]; 3055 Gough Street, #205, San Francisco,
CA 94123 (US).

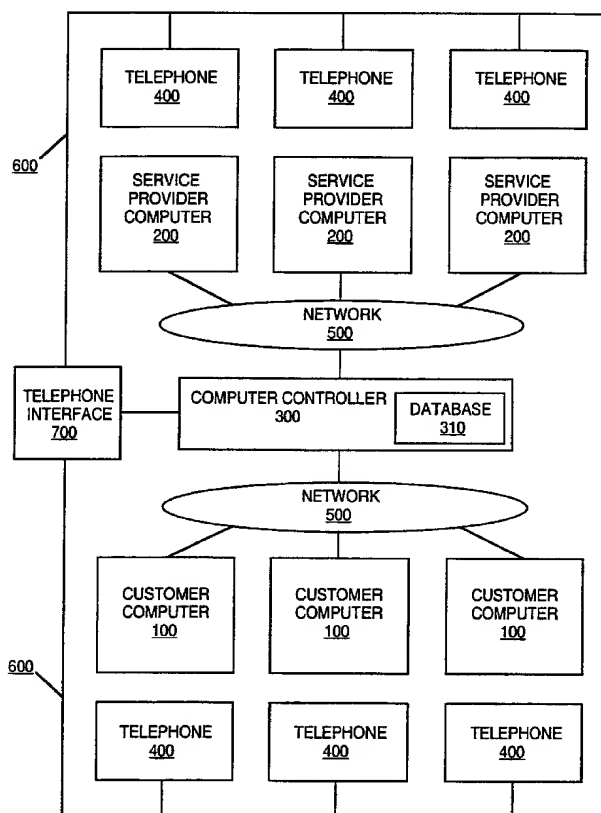
(74) Agents: **MILLIKEN, Darren, J.** et al.; Blakely, Sokoloff,
Taylor & Zafman LLP, 12400 Wilshire Boulevard, 7th
Floor, Los Angeles, CA 90025 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE,
DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent

[Continued on next page]

(54) Title: SYSTEM FOR RECORDING AND DISTRIBUTING RECORDED INFORMATION OVER THE INTERNET



(57) Abstract: A system for recording and distributing information is described. The system includes a controller computer (300) capable of establishing a communications connection (400) via a communications interface (700) with information providers and users. The controller computer (300) also maintains a web site through which information providers can list and describe the information services to be distributed through the web site and through which users can browse to find information services to purchase. Information providers record information over the communications connection (400), which is stored in a database (310) maintained on the controller computer (300). Users select to receive recorded information, which is delivered over the communications connection (400) by the controller computer (300). The controller computer (300) further has the capability of automatically billing users and crediting information providers for the information.



WO 01/28141 A1

System for Recording and Distributing Recorded Information over the Internet

This application is a continuation-in-part of co-pending U.S. Application No. 09/414,710, filed on October 8, 1999 and incorporated by reference in its entirety herein.

The present invention relates generally to electronic commerce using digital and analog networks. More specifically, the present invention relates to a network application for recording and distributing recorded information and for tracking the communication time period and allocating revenue based thereon.

BACKGROUND OF THE INVENTION

Consumers interested in acquiring voice-based services, i.e., services that can be provided over a telephone, must first identify the service provider who is capable of providing the required services. At present, this usually means perusing a telephone directory, which can become frustrating and time-consuming if the service providers telephoned are not immediately available. A phone book (whether a bound paper book or an electronic directory) is also not very effective if the service provider's business category is not known.

Over the years, a number of systems have been developed that partially address this problem. In particular, these include systems that attempt to match potential customers with potential service providers. They range from free bulletin-board-style Internet web sites to sophisticated Internet-based consulting services.

One such system is similar to an electronic "marketplace." Users submit via the Internet a description of the services they need to an Internet-based "exchange." These descriptions include the subject matter of the requested service, time constraints for service delivery, and the proposed price to be paid for the services. The exchange then identifies potential service providers and facilitates bidding for the job by the selected service providers, some of whom may or may not have been selected previously by the user. Once the service

providers' bids have been received by the user, the user sends a full job request to one or more service providers of particular interest. The service providers who remain interested in the proposed work then submit a final bid to the user. This bid may also include the expert's particular qualifications and conditions for accepting the work. After the work has been completed, the expert contacts the exchange for payment. Although this system is beneficial, users still do not immediately know if an expert is available and the response from the expert is neither immediate nor direct.

Another prior art system maintains a list of independent professors available for answering questions via the Internet. The system functions as a middleman between the customer and the professors. The customer contacts the system via the Internet with a question. The system then contacts various experts within the appropriate field via the Internet and forwards the customer's question to the experts. Here too, customers do not immediately know if an expert is available, and the response from the expert is not immediate.

There is another system that allows users to post via the Internet questions for experts related to specific topical categories. However, there is no guarantee that an expert will answer the question as the user does not pay for the services and the experts are not paid. Again, presuming the expert is willing to answer a question, users do not immediately know if an expert is available and the response from the expert is not immediate nor direct.

Another system allows users to post questions to an electronic "bulletin board." Other users, whether expert or not, then provide answers or comments on a voluntary basis. This system, though useful, suffers from many of the same problems as the system described above.

In some situations, the expert can provide useful information without having to interact directly with the customer or user. None of the systems described above has the capability

of distributing recorded information to a user looking for and willing to pay for such information.

Today, the only viable methods to sell recorded aural information is by offering physical, recorded media (compact discs, cassettes, etc.) or by setting up a 1-900 number with a recorded message. Physical, recorded media such as compact discs are cumbersome and expensive to manufacture and distribute. 1-900 numbers are difficult because information providers cannot update the recording without physically accessing the machine and manually changing the recording to be played. They are also costly to publicize because each 1-900 number must be marketed separately.

SUMMARY OF THE INVENTION

The present invention provides a system through which information can be recorded and distributed. The system includes a controller computer linked with a communications interface. The controller computer has a database, a first logic unit linked with the database to establish via the communications interface a first communications connection with an information provider, and a second logic unit linked with the database to establish via the communications interface a second communications connection with a user. The information from the information provider is recorded over the first communications connection and stored on the database. In response to the user selecting to receive the information, the system delivers the information via the second communications connection to the user. Methods of recording and providing information and of selling recorded information are also provided herewith.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a system for recording information from service providers and distributing the information to customers in accordance with one embodiment of the invention.

FIG. 2 illustrates an alternative embodiment of a system for recording information from service providers and distributing the information to customers.

FIG. 3 illustrates one embodiment of a web page for selection of a category in which a listing for information appears in accordance with the present invention.

FIG. 4 and 4A illustrate one embodiment of a web page for creating a listing for and a description of information in accordance with the present invention.

FIG. 5 illustrates one embodiment of a web page for recording information in accordance with the present invention.

FIG. 6 illustrates one embodiment of a preview web page for previewing the listings of a service provider in accordance with the present invention.

FIG. 7 is a flowchart that provides an overview of a process of creating a listing for recorded information according to one embodiment of the present invention.

FIG. 8 is a flowchart of a process for recording information according to one embodiment of the present invention.

FIG. 9 is a flowchart of a process by which a user receives recorded information according to one embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention enables information providers to record, update, and deliver information from anywhere that has communications access, whether through a telephone network, a computer network, wireless communications network, etc. and enables information users to access such information from anywhere that has communications

access. In one embodiment, a system according to the present invention establishes a web site, through which the information provider can at any time update the recorded information or the description and price that appear to the user and through which the user can at any time access the recorded information. Upon selecting to receive a desired

recording, the user can listen to it through the telephone or other communications device. While the recorded information is being delivered to the user, the user would accrue charges on either a per-time period or lump-sum basis. The information provider would later receive all or part of the accrued charges. The present invention effectively solves all of the logistical problems involved with recording and distributing aural information.

As shown in FIG. 1, user computers ("customer computers") 100 and information provider computers ("service provider computers") 200 are connected through a network 500 (such as the Internet) to a host computer or web server ("controller computer") 300. Persons of ordinary skill in the art will recognize that said controller computer 300 may consist of more than one computer working together to provide the controller computer 300 functions described herein. The users (customers) and information providers (service providers) each have telephones 400 that are connected to a telephone network 600. In FIG. 1, the computer network 500 and telephone network 600 are shown as two separate entities, though persons skilled in the art will realize that they may overlap. See FIG. 2.

The controller computer 300 has the functionality of a standard web server, capable of interacting dynamically via the service provider computers 200 and the customer computers 100 with service providers and customers, respectively. In addition to the standard web server operations, the controller computer 300 is linked with a communications interface ("telephone interface") 700 that enables the controller computer 300 to set up, initiate, confirm, and track communications between the customers and service providers, on the one hand, and the controller computer 300 on the other hand. The controller computer 300 has the ability to establish a first communications connection,

e.g., a telephone call, with service providers for the purpose of recording and updating information stored in a database 310 maintained on the controller computer 300. The controller computer 300 also has the ability to establish a second communications connection, e.g., a telephone call, with customers for the purpose of distributing the information stored in the database 310.

In accordance with the embodiment shown in FIG. 1, the customer computers 100 and the service provider computers 200 are connected to the controller computer 300 through the network 500. Customers and service providers use their computers to connect to the network 500. Once the connection has been established, customers and service providers enter the URL, or Internet address, of the controller computer 300, and a logic unit within the controller computer 300 establishes a computer connection with the customer computer 100 and the service provider computer 200. In one embodiment, after the computer connection has been established between the controller computer 300 and the service provider and customer computers 200 and 100, respectively, a logic unit within the controller computer presents a web page on the service provider and customer computers 200 and 100, respectively.

Typically, customers and service providers register before customers can purchase services or information and before service providers can offer their services or information through the web site. During registration, the customers and the service providers are requested to submit certain information, such as a username and password. Customers may be requested to submit credit card or other financial information. Service providers may or may not be requested to submit credit card or other financial information. Once the requested information has been submitted, the data is stored in the database 310 in an account set up for the service provider and in a user account set up for the customer.

In one embodiment, a logic unit within the controller computer 300 presents a web page on the customer computer 100 and the service provider computer 200 through which the

logic unit prompts the customer and the service provider to submit the requested registration information. The logic unit is linked with the database 310 and so automatically sets up the account and the user account and automatically stores the submitted registration information in the appropriate accounts on the database 310.

Service providers typically submit a description about and/or a listing for each information service they will provide through the web site. In one embodiment, the description and

listing are submitted via the computer connection that has been established between the controller computer 300 and the service provider computer 200. Using a web page presented by a logic unit within the controller computer 300 on the service provider computer 200, the service provider typically first submits a valid username and password combination to access the account that has been set up for the service provider. The controller computer 300 will confirm the username and password combination by comparing the submitted data to data stored in the database 310 in the account set up for the service provider.

Once the username and password combination is successfully verified and the service provider has accessed the account, in one embodiment a logic unit within the controller computer 300 presents a web page 1000 as illustrated in FIG. 3. The web page 1000 requests the service provider to choose a category, e.g., Arts & Entertainment 1010, from a list of categories presented 1100.

After the category is chosen, the service provider clicks on Continue 1020, and in one embodiment, a logic unit within the controller computer 300 then presents the service provider with a web page 1200 as illustrated in FIG. 4. The web page 1200 requests the service provider to create a listing for the information the service provider will be providing through the web site. In the embodiment shown in FIG. 4, the web site allows the service provider to list information in two formats, a live answer format or a recorded

format. The live answer format is described in more detail in co-pending U.S. Application No. 09/414,710, which is incorporated by reference in its entirety herein. Through this web page 1200, the controller computer requests the service provider to designate a format 1210, e.g., Recorded Listing, and to provide a title 1220 and a text description 1230 of the information that the service provider will be providing. The web page 1200 also requests the service provider to designate a price 1240 for the information to be provided. The embodiment in FIG. 4 shows the price 1240 as being a price per minute, but the price need not be a rate per period of time and may also include a flat price. As shown in FIG. 4A,

the web page 1200 may accept additional descriptive information, such as a photo of the service provider, and offer the listing and the description in different languages.

After the service provider has finished creating the listing and the description, the service provider clicks on Continue 1260. Where the service provider has selected to provide information in a recorded format, in one embodiment, a logic unit within the controller computer 300 next presents the service provider with a web page 1400 as illustrated in FIG. 5, requesting that the service provider create the recording. Following the instructions provided on the web page 1400, the service provider will click on Call Me Now To Make Recording 1450, in response to which, a logic unit within the controller computer 300 will establish via the communications interface 700 a communications connection with the service provider.

In the embodiment depicted in FIG. 5, the logic unit within the controller computer 300 establishes a telephone connection with the service provider over a telephone network 600 by calling a telephone number saved on the database 310 in the account set up for the service provider. The controller computer 300, according to the present invention, may establish a communications connection over other types of communications networks, such as a computer network, satellite network, wireless communications network, direct

TV network, etc., and the communications connection may include an audio, video, or other type of data connection.

FIG. 7 shows a flowchart 2000 that provides a general overview of the process of creating recorded information according one embodiment of the present invention. After registering with the web site and accessing the account set up for the service provider, the service provider is prompted to create a listing for the information that is to be recorded and distributed 2010. The controller computer 300 prompts the service provider to input a text description of the information 2020, and then prompts the service provider to record the information 2030. After the information is recorded, the listing is complete, and the controller computer 300 saves the information and the description in the service provider's

account on the database 310, and lists the listing on the web site 2031. If an error occurs during recording, the controller computer 300 will save the text description but not the information and will not list the listing on the web site 2032.

FIG. 8 provides a flowchart 2100 that details a process by which the service provider records the information in accordance with one embodiment of the present invention. In this embodiment, the information includes a voice-over recording that is recorded via a telephone connection. The telephone connection may be established over a telephone network or over a computer network, e.g., Internet telephony. The flowchart 2100 starts after the service provider has clicked on Call Me Now To Make Recording 1450 (see FIG. 5) with a logic unit within the controller computer 300 establishing via the telephone interface 700 a telephone connection with the service provider. In other words, the controller computer 300 calls the service provider 2110 via the telephone interface 700 using a telephone number stored as part of the service provider's account in the database 310. When the service provider accepts the telephone call, the logic unit within the controller computer 300 prompts the service provider to begin providing information to be recorded 2120. The prompt may include instructions to the service provider for how to

2130, with the controller computer 300 recording aural information provided by the service provider over the telephone connection. A number of possibilities exist at this point in the process.

One possibility is that the recording proceeds without a problem. When the service provider has finished providing the information, the service provider provides some indication, e.g., by pressing the #-key, to the controller computer 300 that he has finished 2131. In response, a logic unit within the controller computer 300 prompts the service provider to either listen to the information, save the information, or to re-record the information 2140. The service provider may indicate his choice by, e.g., pressing a number on the telephone keypad, or speaking a number into the telephone connection. If the service provider chooses to listen to the information, the controller computer 300 will

play the information over the telephone connection and, at the end of the recording, return to 2140 and prompt the service provider to again choose to either listen (again) to the information, save the information, or to re-record the information. If the service provider chooses to save the information, the controller computer 300 acknowledges that the information has been saved, e.g., with a congratulatory message, and ends the communications connection 2150. If the service provider chooses to re-record the information, the controller computer 300 prompts the service provider to re-record the information, and then returns to 2130.

Another possibility that exists is that the communications connection is interrupted in the middle of recording the information, e.g., the service provider hangs up the telephone or otherwise becomes disconnected from the controller computer 300. If the communications connection is ended without the controller computer 300 receiving an indication that the service provider has finished recording the information, the controller computer 300 will save the information, but the listing for the information will not appear on the web site until the controller computer 300 receives a confirmation from the service provider that the information is ready for distribution 2132.

Another possibility is that the service provider will pause the recording before finishing, or will decide in the middle of recording the information to start over. The service provider may indicate his decision by, e.g., pressing the *-key, 2133. In response to receiving such an indication, the logic unit of the controller computer 300 will return to 2130 and begin the recording process anew.

Still another possibility is that the controller computer 300 reaches a "timeout" condition 2134. This may happen, e.g., when a size limit for the recorded information (either in terms length of time, e.g., 30 minutes, or computer or database memory) has been reached, or when the controller computer 300 records silence for a set length of time, e.g., 30 seconds. If the timeout condition is reached because the recorded information has reached the size limit, the controller computer 300 will proceed to 2140 and prompt the service

provider as though the controller computer 300 has received an indication that service provider was finished. If the timeout condition is reached because the controller computer 300 has recorded silence for the set length of time, then the controller computer 300 will prompt the service provider that nothing has been recorded for the set length of time and play what information has been recorded 2135. After the recorded part of the information is played back, the controller computer will prompt the service provider to continue recording and return to 2130. If the controller computer again records only silence for the set length of time, the controller computer 300 will terminate the communications connection without having saved any of the information.

Once the controller computer 300 receives confirmation from the service provider to save the information, a logic unit within the controller computer 300 that is linked with the database 310 will save the recorded information in the service provider's account on the database 310. A system according to the present invention allows the service provider to access the account at any time to change or update the listing, the description, and/or the recorded information. To update the listing, description or the recorded information, in

one embodiment the controller computer 300 would provide to the service provider the same or similar web pages as those illustrated in FIG. 3-5 and record the information in the same or similar manner as described in FIG. 8.

In one embodiment, after the recorded information has been saved, a system according to the present invention previews the service provider's listing for the service provider prior to making the listing accessible to all of the users who browse the web site. FIG. 6 illustrates one embodiment of a preview web page 1500 in accordance with the present invention that the controller computer 300 may present on the service provider computer 200 via the computer connection. As illustrated in FIG. 6, each listing is previewed with a Listing Title 1501, Listing Type 1502 (Recorded or Live Answer), Availability 1503, Feedback Rating 1504, Rate 1505 (per minute), and options to Change Listing 1506. In accordance with the present invention, other types of listing data may be previewed in addition or instead of the types listed in FIG. 6.

In San Fran Steven's Listings, shown in FIG. 6, San Fran Steven lists three types of information services, Sailing Tips 1510, Sailing Advisor 1520, and Sailing Tricks 1530. Sailing Tips 1510 is a recorded format information service, as indicated by the word "Recorded" 1512 as well as by the image of the headphones 1513. Because Sailing Tips is a recorded format information service, it is always available for listening, as indicated by the words "Always Available" 1514. The listing 1510 further shows the date the recording was last updated 1515. In one embodiment, a system according to the present invention provides a feedback rating, based upon evaluations provided by users who have purchased the information previously. As shown in FIG. 6, San Fran Steven's Sailing Tips 1510 has not been rated, as indicated by the words "Not Rated" 1516. The price for receiving San Fran Steven's Sailing Tips is listed at "25 cents" (per minute) 1517. The preview page embodiment shown in FIG. 6 conveys the listing information mostly with words or as text messages, but those of ordinary skill in the art will recognize that the listing information

may be conveyed with images (e.g., the headphones 1513 to indicate the recorded information format) or other symbols.

On the preview page shown in FIG. 6, three options are offered to change the listing 1518 for San Fran Steven's Sailing Tips. By selecting one of the options, the service provider may update, delete, or listen to the Sailing Tip. If the service provider selects "Update", the controller computer 300 starts a process such as those described above, with reference to FIG. 3-5 and 7-8. If the service provider chooses "Delete", the controller computer 300 will delete the listing, the description and the recorded information being stored in the database 310. If the service provider chooses "Listen", the controller computer 300 will establish a communications connection with the service provider (as described above) and play the recorded information over the communications connection for the service provider.

FIG. 6 shows similar listing information about San Fran Steven's Sailing Advisor 1520 and Sailing Tricks 1530. Sailing Advisor is a live answer format information product, as indicated by the words "Live Answer" 1522 as well as by the telephone image 1523. The

Sailing Advisor listing 1520 further gives an indication of the service provider's current availability 1524, which the service provider may change by selecting the unmarked box. As a live answer format product, the service provider further has the option of creating a schedule 1525 as part of the listing to indicate when the service provider is available to provide live answers, as described in more detail in co-pending U.S. Application No. . Sailing Tricks is another recorded format information product, as shown by the words "Recorded" 1532 and the headphone image 1533. The listing 1530 indicates that Sailing Tricks has not yet been recorded and directs the service provider to click "Update" 1534 in order to record the information. In the embodiment illustrated in FIG. 6, the preview web page also provides other information 1540 and marketing tips 1550 that the service provider may find useful.

Once the recorded information has been saved and listing, description and recorded information confirmed, the recorded information becomes available for sale to all of the users who browse the web site. Access to the web site may be established as described above, with the customer using a user computer ("customer computer") 100 to connect to a network 500 and then entering the URL of the controller computer 300. A logic unit within the controller computer 300 then establishes a computer connection with the customer computer 100.

After the computer connection has been established, in one embodiment customers will have the option of executing a keyword search for service providers. The keyword search can be executed from a web page presented by a logic unit of the controller computer 300 on the customer computer 100. Persons skilled in the art will recognize that a keyword search consists of scanning a database for words that match the keywords entered. In this embodiment, the keyword search will be executed against the descriptions and listing data stored in the database 310 maintained on the controller computer 300. In one embodiment, customers will view a list of service providers matching the keyword search criteria on a web page presented by the logic unit on the customer computer. Customers will have the option of viewing the service providers listed according to price, availability, or customer evaluations in either ascending or descending order. Persons skilled in the art will recognize that the service providers can be listed in any number of ways. As an alternative to a keyword search, customers can select a category to view a predetermined list of service providers. In one embodiment as described above with reference to FIG. 3, the service provider selects the categories in which the listings for his information services will appear.

In one embodiment, the list of service providers includes a description of each information service provided by the service provider. The customer can select to receive the information described, e.g., by clicking on the description or on a link included with the description. If the customer selects to receive a recorded information product, a logic unit

within the controller computer 300 will respond by establishing via the communications interface 700 a communications connection with the customer. The communications connection may be established over a telephone network, a computer network, satellite network, wireless communications network, direct TV network, or other type of communications network, and may include an audio connection, video connection, or other type of data connection.

FIG. 9 provides a flowchart 2200 that details a process by which the customer receives the recorded information in accordance with one embodiment of the present invention. In this embodiment, the recorded information includes a voice-over recording and the communications connection is a telephone connection that may be established over a telephone network or over a computer network, e.g., Internet telephony. The flowchart 2200 starts after the customer has selected to receive the recorded information with a logic unit within the controller computer 300 establishing a telephone connection with the customer. In other words, the controller computer calls the customer 2210 via the telephone interface 700 using a telephone number stored as part of the user account set up for the customer and stored in the database 310. Once the communications connection has been established, the logic unit within the controller computer 300 prompts the customer to accept the information 2220 by, e.g., pressing a certain number on the telephone keypad or by speaking a certain word into the telephone. Once the customer accepts, the logic unit, which is linked to the database 310 on which the recorded information is stored, delivers the recorded information to the customer over the telephone connection 2230.

At this point, the customer may choose either to stop delivery of the recorded information before its end or to listen to the recorded information to its end 2231. If the customer chooses to listen to the recorded information to its end 2231, the controller computer 300 will prompt the customer to choose to listen to the information again or to end the call 2232 by, e.g., pressing a number on the telephone keypad. If the customer chooses to

listen to the information again, the controller computer 300 will re-send the information over the communications connection. If the customer chooses to end the call, the controller computer 300 will proceed to 2240, where the telephone connection is ended. In one embodiment, after providing the information to the customer, the controller computer 300 prompts the customer to submit an evaluation rating of the information that is stored on the database 310 as part of the description of the information.

Alternatively, the customer may choose to stop delivery of the information before it has reached its end. The customer may do this by, e.g., pressing the #-key on the telephone keypad or by hanging up. If the customer chooses to stop delivery of the information by providing an indication to the controller computer, e.g., by pressing the #-key, then the controller computer proceeds to 2240 and ends the telephone connection.

In one embodiment, the controller computer 300 according to the present invention has a logic unit to track how long the information is delivered to the customer. When the customer accepts the call 2220, the logic unit may begin a telephone call timer for the purpose of billing the customer for the information. As described above, the price for the information may be a rate per period of time or a fixed amount for each time the information is provided to the customer. In one embodiment, the logic unit automatically deducts an amount from the customer's user account when delivery of the information has stopped. Alternatively, the logic unit may deduct an amount equal to the rate charged by the service provider as the information is being delivered, i.e., while the communications

connection is being maintained. If the telephone call has not been concluded when only a minute's worth of time is remaining (based on the rate charged by the service provider) on the user account, the controller computer 300 will prompt the customer to increase the credit in the user account, or to purchase additional time. If the customer does not increase the credit or purchased additional time, the controller computer 300 will prompt the customer to provide additional credit or payment before the call is terminated.

In one embodiment, the controller computer 300 records a summary of the transaction in the database 310 maintained on the controller computer 300 and updates the customer's user account and the service provider's account accordingly. The controller computer 300 additionally may send summary messages, e.g., via electronic mail, to both the service provider and the customer.

In one embodiment of a system according to the present invention, customers and service providers will be given a summary of account activity. This information may include services provided, services purchased, and the current month's billing and payment summary. Customers and service providers also may have the option of viewing the previous month's billing and payment summary as well as the next month's billing and payment summary.

EXAMPLE

A comedian named Peter offers a service to his audience that he calls "Joke of the Day," in which he tells a joke that is particularly relevant to current events and today's celebrities. He has described this service at the subject web site under "Humor" in a listing that indicates the comedian's description, photograph, credentials, and a 50-cent price per minute to listen to the "Joke of the Day." In order to record the joke each morning, Peter goes to the subject web site, and clicks on "Call Me Now to Make Recording." The web site instantly calls him on his telephone and prompts him to speak his new recording. The new joke is recorded and stored on the web site.

A customer named Linda, who would like to hear a "Joke of the Day," goes to the subject web site. She looks in the Humor section and finds several listings of comedians with different descriptions and prices. After choosing to listen to Peter's joke, she clicks on the "Call Me Now" button. Her telephone instantly rings and she is played a recording of Peter's joke of the day. She listens for three minutes, and then hangs up. Her credit card is charged a total of \$1.50 for the three minutes (at 50 cents per minute). Peter's online

account is credited the \$1.50 minus a fee collected by the web site.

Those of ordinary skill in the art will recognize that this example and the embodiments described above are illustrative only and do not in any way limit the range of applications of the present invention. Numerous modifications, variations, and improvements may be made to the example and the embodiments described above that still fall within the scope of the invention as claimed.

What is claimed is:

1. A system for recording and delivering information, the system comprising:
a communications interface; and
a controller computer being linked with the communications interface, the controller computer having:
a database to store the information recorded by an information provider;
a first logic unit linked with the database to establish via the communications interface a first communication connection with the information provider over which the information provider records the information; and
a second logic unit linked with the database to establish, in response to a user selecting to receive the information and via the communications interface, a second communications connection with the user and to deliver the information via the second communications connection to the user.
2. The system as described in claim 1, wherein the database further stores a description of the information.
3. The system as described in claim 2, wherein the controller computer further has a third logic unit linked with the database to establish a computer connection with an information provider computer and to receive via the computer connection the description from the information provider.
4. The system as described in claim 3, wherein the computer connection is established through a web site accessible by the information provider computer.
5. The system as described in claim 2, wherein the controller computer further has a third logic unit linked with the database to establish a computer connection with a user computer and to deliver the description to the user computer via the computer connection.

6. The system as described in claim 5, wherein the computer connection is established through a web site accessible by the user computer.
7. The system as described in claim 2, wherein the description includes a price for the information.
8. The system as described in claim 7, wherein the price includes a rate per period of time.
9. The system as described in claim 1, wherein the first communications connection includes an audio connection.
10. The system as described in claim 1, wherein the first communications connection includes a video connection.
11. The system as described in claim 1, wherein the first communications connection is established over a computer network.
12. The system as described in claim 1, wherein the first communications connection is established over a telephone network.
13. The system as described in claim 1, wherein the second communications connection includes an audio connection.
14. The system as described in claim 1, wherein the second communications connection includes a video connection.
15. The system as described in claim 1, wherein the second communications connection is established over a computer network.

16. The system as described in claim 1, wherein the second communications connection is established over a telephone network.

17. The system as described in claim 1, wherein the controller computer has a third logic unit to bill the user for the information.

18. The system as described in claim 17, wherein the controller computer has a fourth logic unit to track how long the information is delivered to the user and the third logic unit bills the user based upon how long the information is delivered.

19. The system as described in claim 1, wherein the database further stores information about a user account.

20. The system as described in claim 19, wherein the controller computer has a third logic unit to deduct an amount from the user account for the information.

21. The system as described in claim 19, wherein the controller computer has a third logic unit to track how long the information is delivered to the user and a fourth logic unit to deduct from the user account an amount based upon how long the information is delivered.

22. The system as described in claim 1, wherein the database further stores information about an account set up for the information provider.

23. The system as described in claim 22, wherein the controller computer has a third logic unit to credit an amount to the account when the information is delivered to the user.

24. The system as described in claim 22, wherein the controller computer has a third logic unit to track how long the information is delivered to the user and a fourth logic unit to credit to the account an amount based upon how long the information is delivered.

25. The system as described in claim 22, wherein the controller computer has a third logic unit to track how long the information is delivered to the user and a fourth logic unit to credit to the account an amount based upon how long the information is delivered minus a fee.

26. A method of recording information and delivering the information to a user, the method comprising:

- establishing a first communications connection with an information provider;
- recording and storing the information provided by the information provider over the first communications connection;
- in response to the user selecting to receive the information, establishing a second communications connection with the user; and
- delivering the information to the user over the second communications connection.

27. The method as described in claim 26, further comprising:

- storing a description of the information provided by the information provider; and
- delivering the description to the user.

28. The method as described in claim 27, further comprising:

- establishing a first computer connection with an information provider computer;
- and
- receiving the description from the information provider over the first computer connection.

29. The method as described in claim 27, further comprising:
establishing a second computer connection with a user computer, wherein the description is delivered to the user via the second computer connection.
30. The method as described in claim 27, wherein the description is included in a list of information providers.
31. The method as described in claim 30, wherein the list of information providers is delivered to the user in response to a keyword search.
32. The method as described in claim 30, wherein the list of information providers is delivered to the user in response to a category selection.
33. The method as described in claim 26, wherein the first communications connection includes an audio connection.
34. The method as described in claim 26, wherein the first communications connection includes a video connection.
35. The method as described in claim 26, wherein the first communications connection is established over a computer network.
36. The method as described in claim 26, wherein the first communications connection is established over a telephone network.
37. The method as described in claim 26, wherein the second communications connection includes an audio connection.

38. The method as described in claim 26, wherein the second communications connection includes a video connection.

39. The method as described in claim 26, wherein the second communications connection is established over a computer network.

40. The method as described in claim 26, wherein the second communications connection is established over a telephone network.

41. A method of selling recorded information, the method comprising:
providing a description of the recorded information to a user;
in response to the user selecting to receive the recorded information, establishing a communications connection with the user;
delivering the recorded information to the user over the communications connection; and
billing the user for the recorded information delivered to the user.

42. The method as described in claim 41, further comprising:
establishing a computer connection with a user computer, wherein the description of the recorded information is provided over the computer connection.

43. The method as described in claim 42, wherein the description is included in a list of information providers.

44. The method as described in claim 43, wherein the list of information providers is provided to the user in response to a keyword search.

45. The method as described in claim 43, wherein the list of information providers is provided to the user in response to a keyword search.

46. The method as described in claim 41, wherein the communications connection includes an audio connection.

47. The method as described in claim 41, wherein the communications connection includes a video connection.

48. The method as described in claim 41, wherein the communications connection is established over a computer network.

49. The method as described in claim 41, wherein the communications connection is established over a telephone network.

50. The method as described in claim 41, further comprising:
establishing a user account for the user, wherein billing the user includes deducting an amount from the user account.

51. The method as described in claim 50, further comprising:
tracking how long the information is delivered to the user, wherein the amount deducted from the user account is based upon how long the information is delivered.

52. The method as described in claim 41, wherein the recorded information and the description are provided by an information provider.

53. The method as described in claim 52, further comprising:
establishing an account for the information provider; and
crediting an amount to the account for the recorded information delivered to the user.

54. The method as described in claim 53, further comprising:

tracking how long the information is delivered to the user, wherein the amount credited to the account is based upon how long the information is delivered.

55. The method as described in claim 53, further comprising:

tracking how long the information is delivered to the user, wherein the amount credited to the account is based upon how long the information is delivered minus a fee.

56. The method as described in claim 52, further comprising:

establishing a computer connection with the information provider, wherein the description is provided by the information provider over the computer connection.

1/10

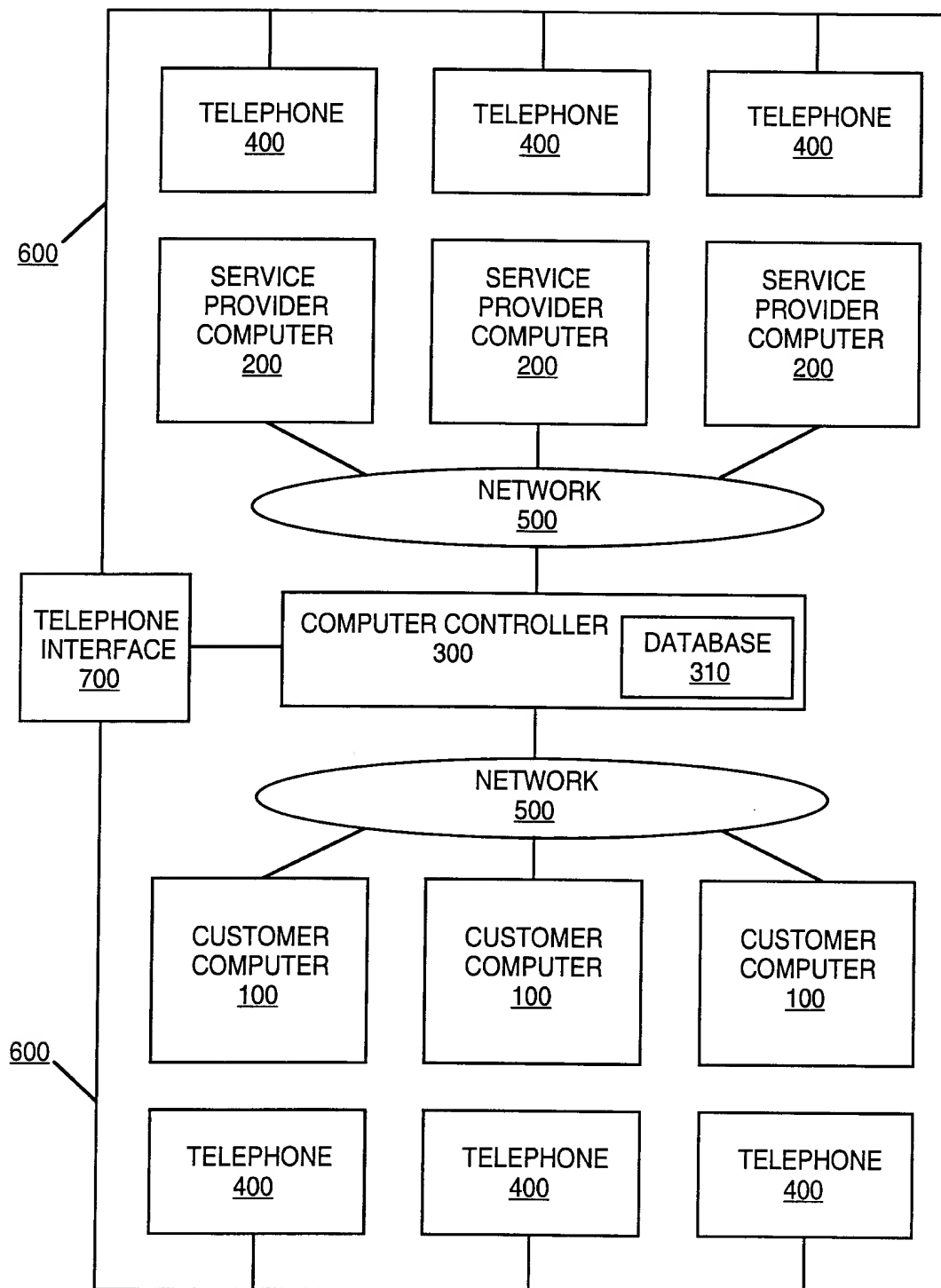
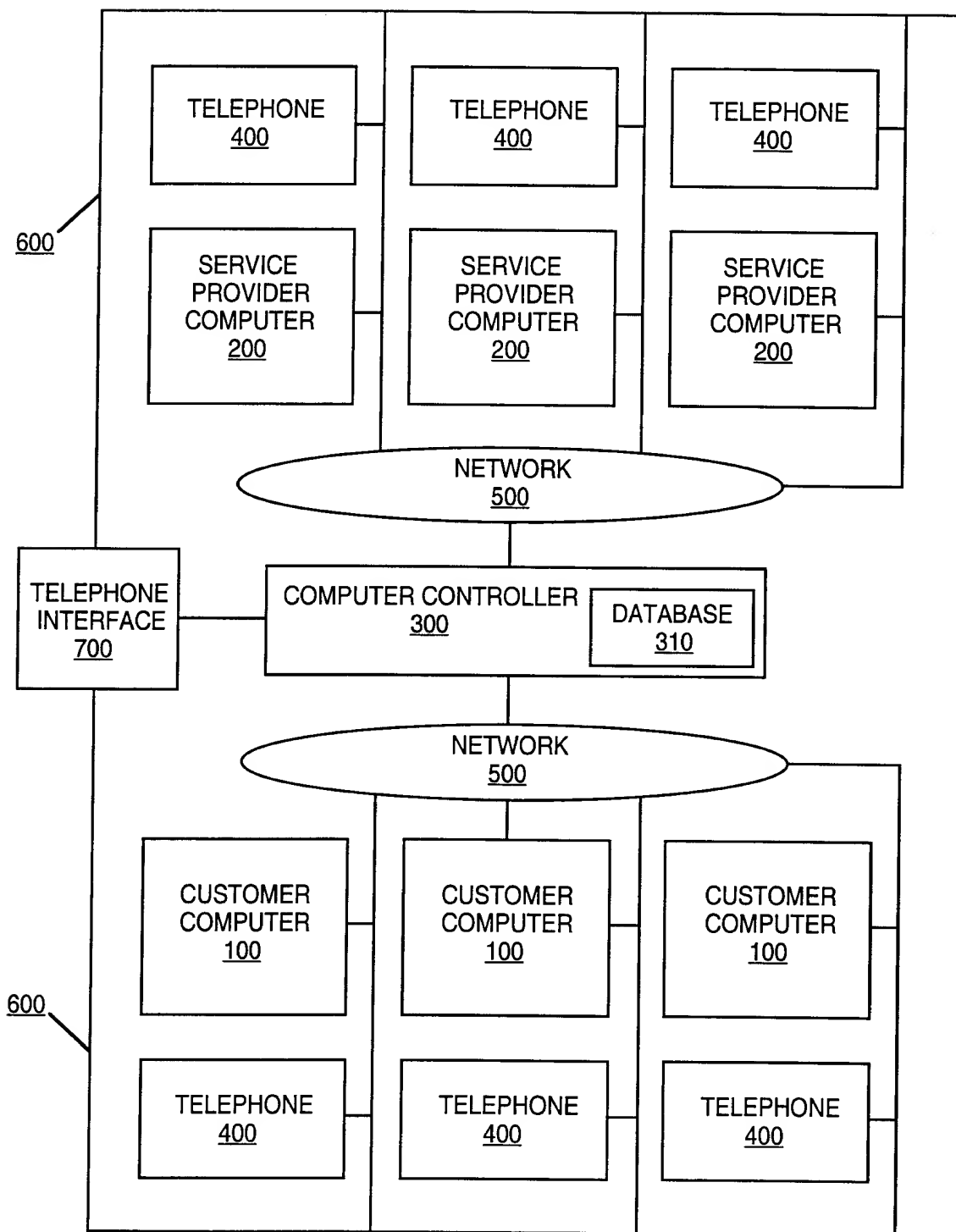


FIG. 1

SUBSTITUTE SHEET (RULE 26)

2/10

**FIG. 2****SUBSTITUTE SHEET (RULE 26)**

3/10

1000

KEENTM.com
Your Live Answer CommunityTM

Home	Find People	My Listings	My Account	Keen Mail	Tell a Friend	Help
Check		Create	My Homepage			

Choose a category

Choose the category in which you would like your listing to appear

- ☐ Age Groups
- ☐ Health and Fitness
- ☐ Arts & Entertainment 1010
- ☐ Hobbies & Collectibles
- ☐ Autos & Vehicles
- ☐ Home & Garden
- ☐ Business & Personal Finance
- ☐ Local Interests
- ☐ Career & Education
- ☐ Personal Advice
- ☐ Computing & Internet
- ☐ Pets
- ☐ Cultural & Religion
- ☐ Romance & Social
- ☐ Family & Parenting
- ☐ Shopping
- ☐ Food & Cooking
- ☐ Sports & Recreation
- ☐ Games
- ☐ Travel
- ☐ Woman's Issues

1100

1020

Continue

FIG. 3

SUBSTITUTE SHEET (RULE 26)

4/10

1200


KEENTM.com
Your Live Answer CommunityTM


Home	Find People	My Listings	My Account	Keen Mail	Tell a Friend	Help
------	-------------	-------------	------------	-----------	---------------	------

Check Create My Homepage

1210

Create a Listing
Choose the type of listing you would like to create.

☐ **Live Answer Listing** 
Members call you for a live answer over your phone-without revealing your personal information

☒ **Recorded Listing** 
A voice recording that you make which other members can call Keen.com and listen to, 24 hours a day.

Market Your Knowledge on Keen.com Sample listing

Required

1220

.....

Title Enter a title that explains what knowledge you are offering.
50 characters maximum (No HTML). [See tips.](#)

Description
This is your chance to introduce yourself to the Keen.com community, so be thorough and creative! Use 75 words minimum and 1,000 words maximum (HTML OK). After you create your listing you can verify your educational, employment, professional license and/or trade credentials through our third-party verification service.

Price per minute

1240

\$0.05

[More info.](#)
How is the minimum price per minute calculated for your country?
How to convert from U.S. dollars to your currency?

1260

Continue

FIG. 4

SUBSTITUTE SHEET (RULE 26)

5/10

1200 (CONT)

1250

Optional

Add a photo to your Listing

Personalize your listing with a picture! Send a email with a photo attachment to photos@Keen.com.

Your Language(s) You can enter multiple languages.

- | | |
|-------------------------------------|---------------------|
| <input type="checkbox"/> | Arabic |
| <input type="checkbox"/> | Danish |
| <input type="checkbox"/> | Finnish |
| <input type="checkbox"/> | Hebrew |
| <input type="checkbox"/> | Korean |
| <input type="checkbox"/> | Spanish |
| <input type="checkbox"/> | Chinese (Cantonese) |
| <input type="checkbox"/> | Dutch |
| <input type="checkbox"/> | French |
| <input type="checkbox"/> | Italian |
| <input type="checkbox"/> | Norwegian |
| <input type="checkbox"/> | Swedish |
| <input type="checkbox"/> | Chinese (Mandarin) |
| <input checked="" type="checkbox"/> | English |
| <input type="checkbox"/> | German |
| <input type="checkbox"/> | Japanese |
| <input type="checkbox"/> | Portuguese (BR) |
| <input type="checkbox"/> | Other |

FIG. 4A**SUBSTITUTE SHEET (RULE 26)**

6/10

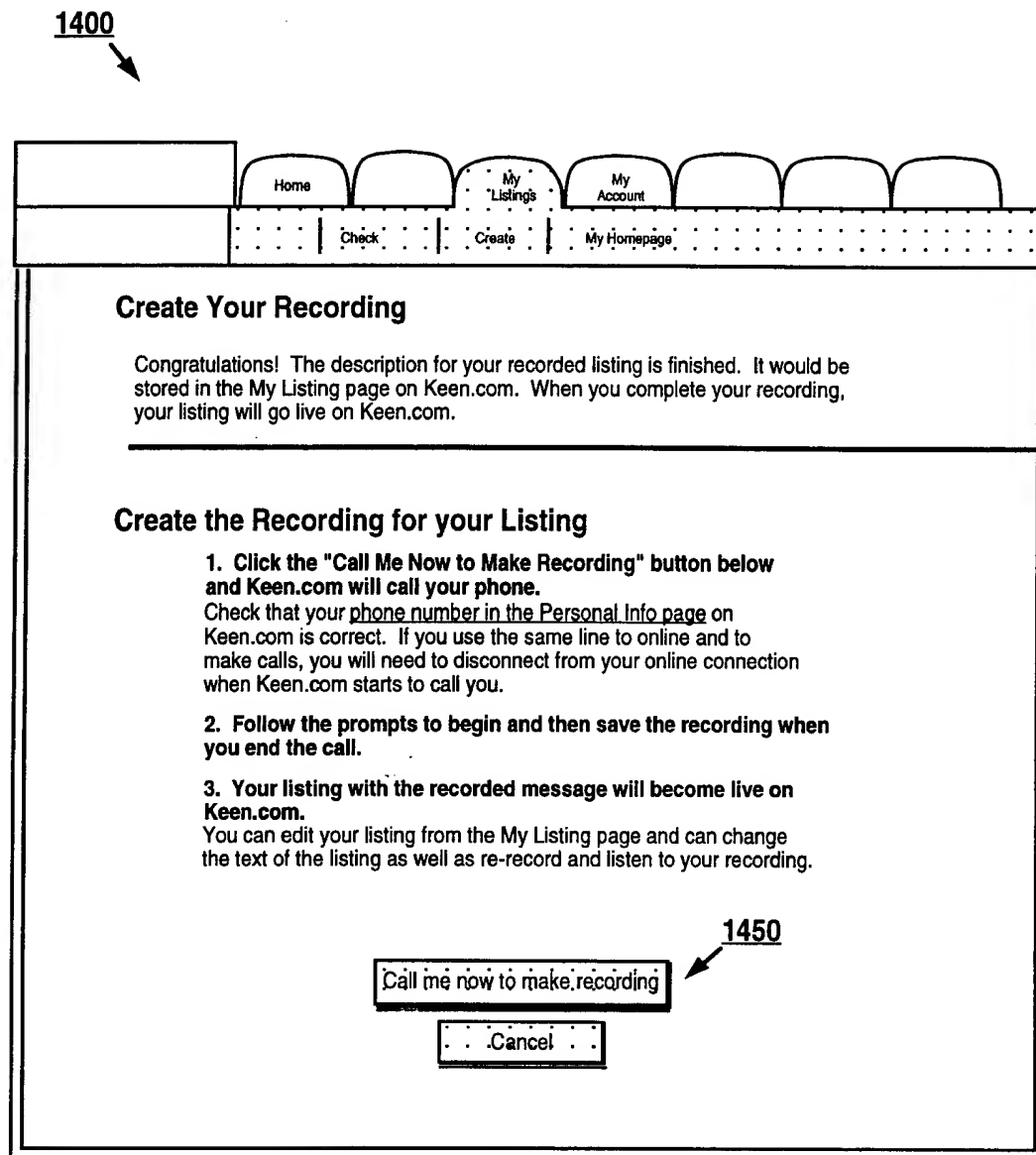


FIG. 5

7/10

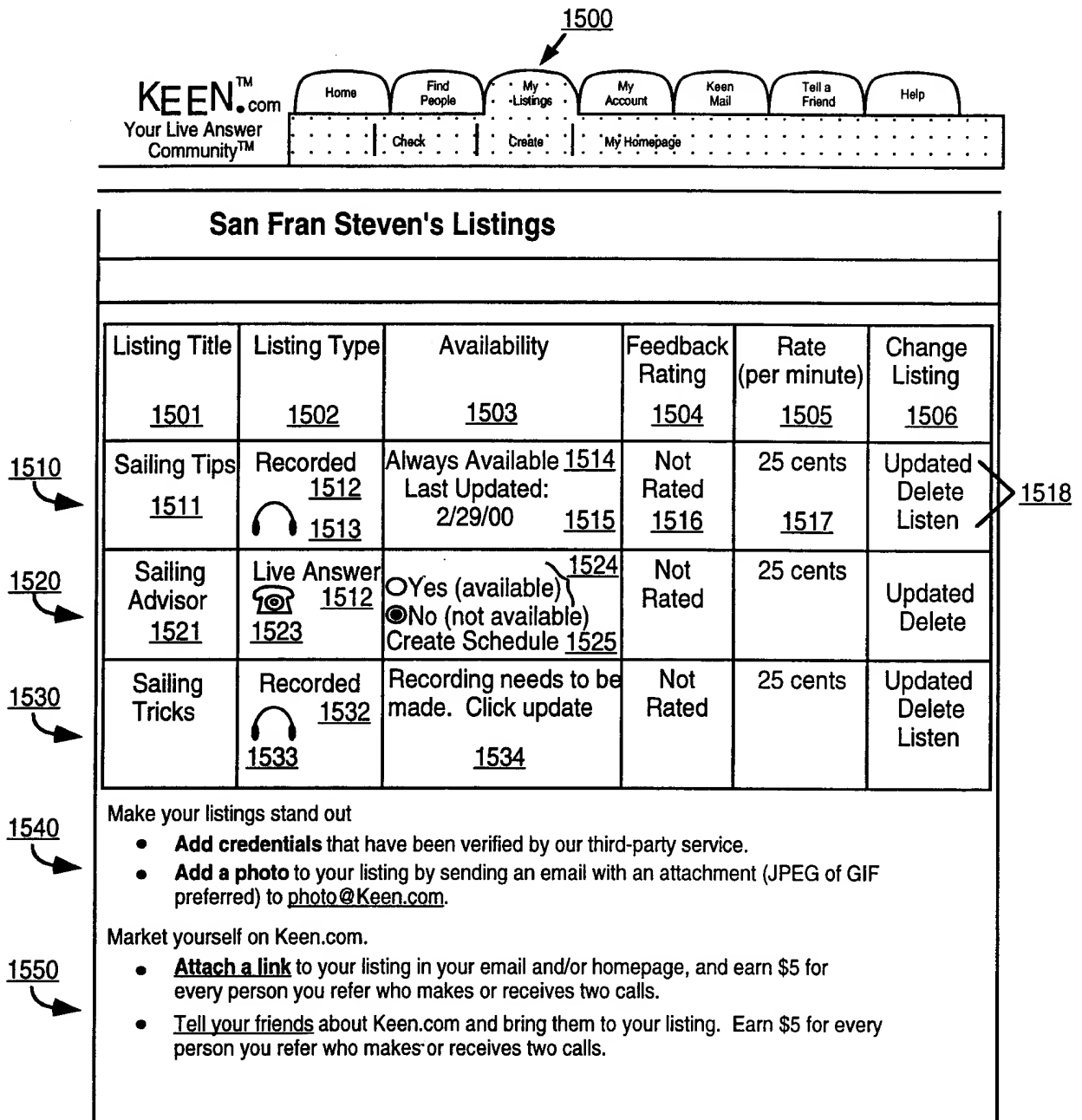
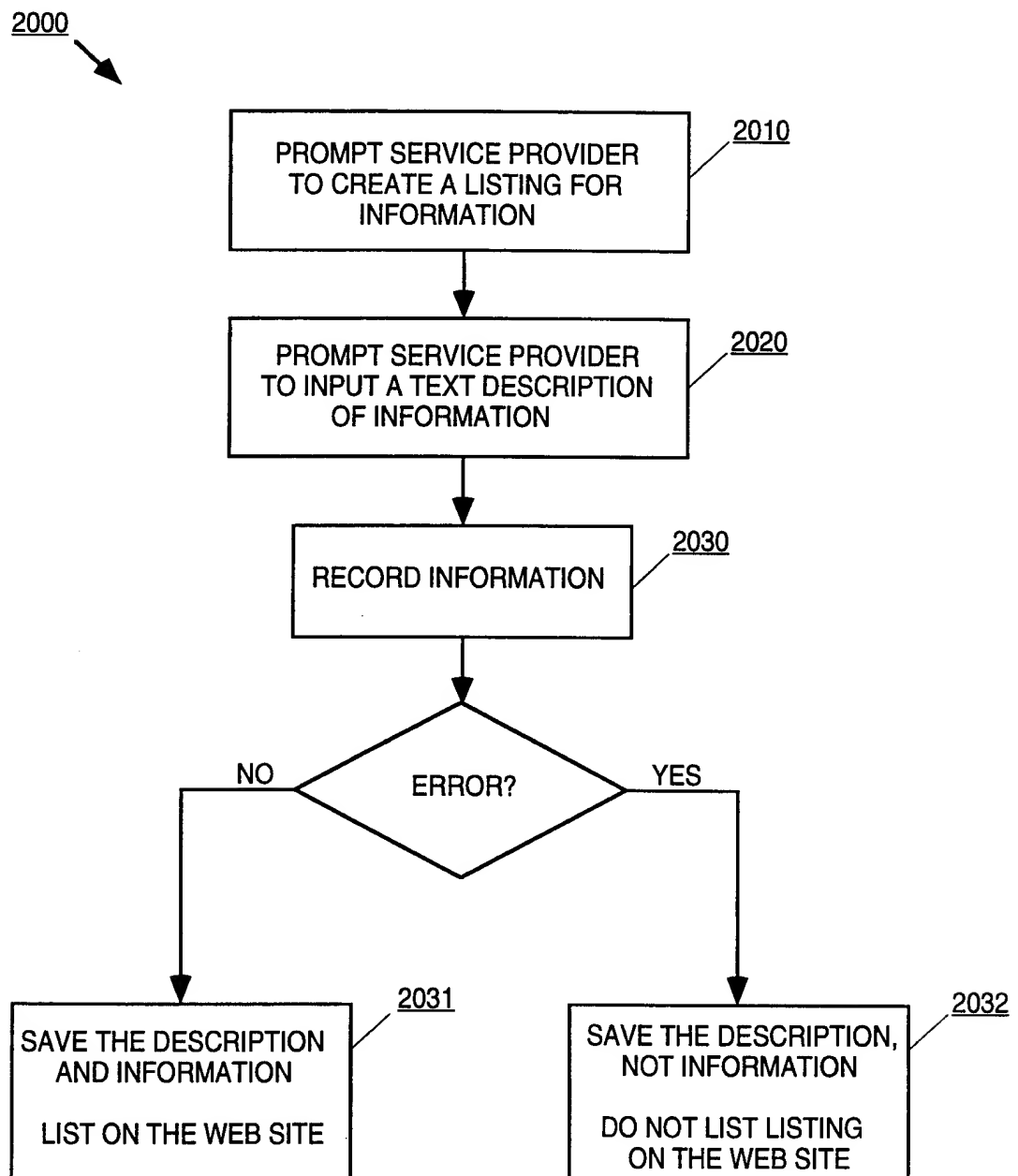


FIG. 6

8/10

**FIG. 7**

9/10

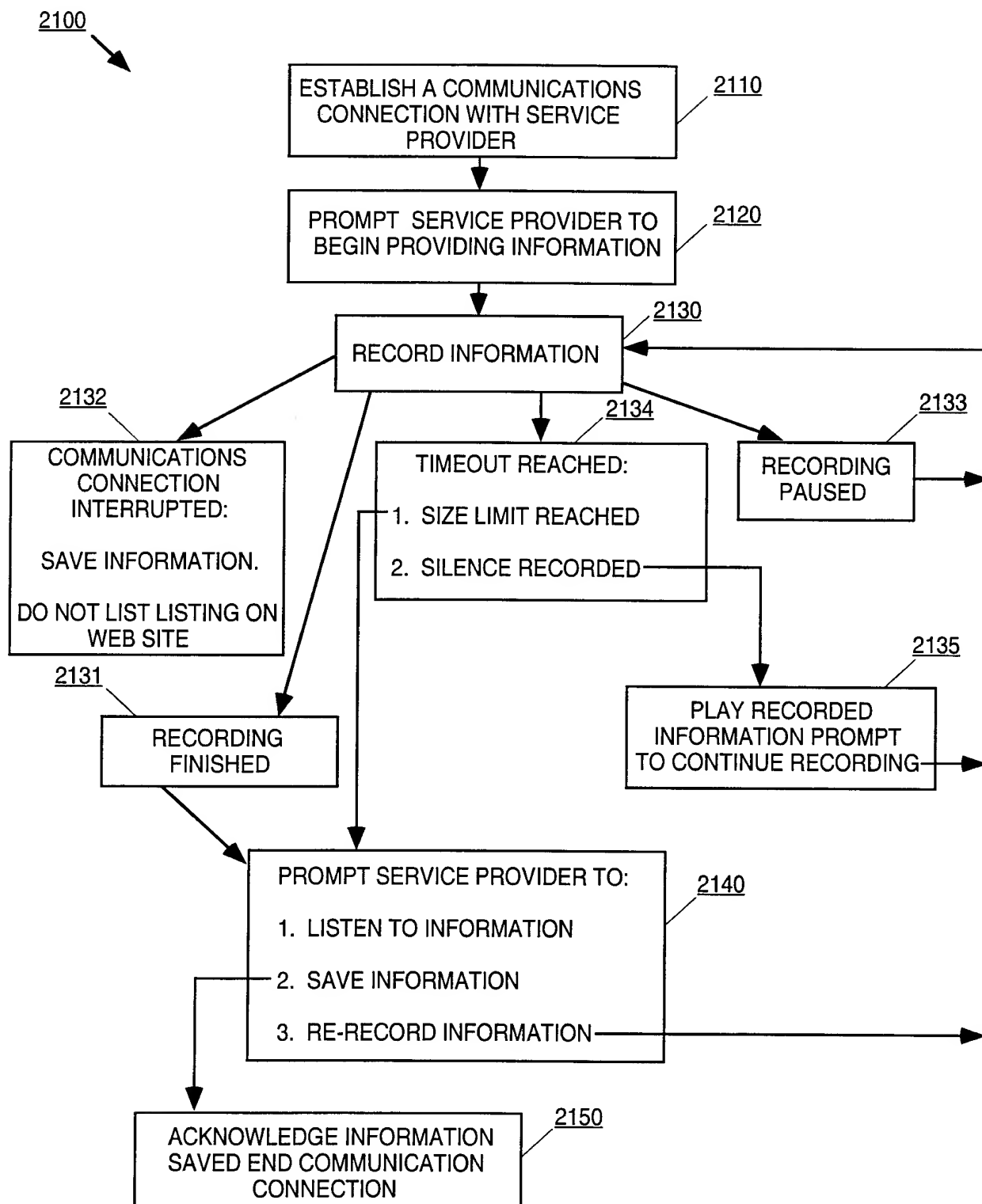


FIG. 8

10/10

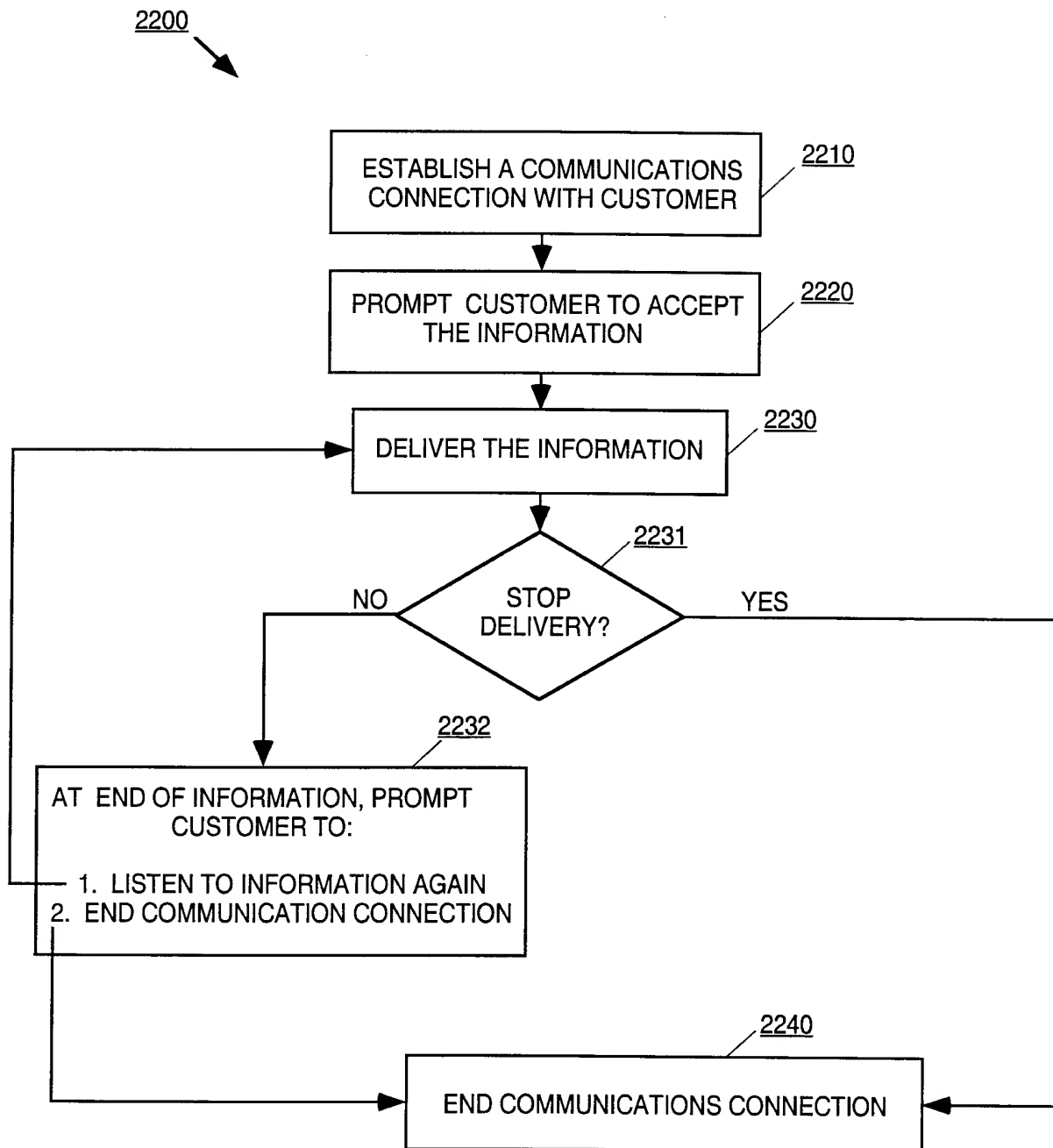


FIG. 9

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/10823

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : H04H 1/08, 1/00; G11B 7/00
US CL : 705/26, 27, 52; 369/25, 29, 34, 272; 455/4.2, 5.1, 6.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/26, 27, 37, 39, 52; 369/25, 29, 34, 272; 455/4.2, 5.1, 6.3; 348/7, 10, 12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Internet

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Dialog Information Services

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,026,400 A (SUZUKI) 15 February 2000 (15.02.2000), all columns, especially, column 4, lines 57-65 and column 5, lines 39-61.	1-56
X	US 5,860,068 A (COOK) 12 January 1999 (12.01.1999), columns 1-3 and 11-12.	1-56
X	US 5,734,961 A (CASTILLE) 31 March 1998 (31.03.1998), column 2, lines 29-55 and columns 12-18.	1-56
X	US 5,497,502 A (CASTILLE) 05 March 1996 (05.03.1996), column 1, lines 61 to column 2, line 52 and columns 12-16.	1-56
X	US 5,832,523 A (KANAI et al) 03 November 1998 (03.11.1998), all columns, especially columns 23-26.	1-56
A,E	US 6,055,513 A (KA'Z et al) 25 April 2000 (25.04.2000), entire document.	1-56
A,P	US 5,999,609 A (NISHIMURA) 07 December 1999 (07.12.1999), entire document.	1-56
A,P	US 5,987,430 A (VAN HORNE et al) 16 November 1999 (16.11.1999), entire document.	1-56
A,P	US 5,974,141 A (SAITO) 26 October 1999 (26.1.1999), entire document.	1-56
A	US 5,878,130 A (ANDREWS et al) 02 March 1999 (02.03.1999), entire document.	1-56
A	US 5,842,212 A (BALLURIO et al) 24 November 1998 (24.11.1998), entire document.	1-56
A	US 5,809,145 A (SLIK et al) 15 September 1998 (15.09.1998), entire document.	1-56



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

Date of mailing of the international search report

09 JAN 2001

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Tod Swann

Telephone No. 703-305-3900

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/10823

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,675,734 A (HAIR) 07 October 1997 (07.10.1997), entire document.	1-56
A	US 5,619,570 A (TSUTSUI) 008 April 1997 (08.04.1997), entire document.	1-56
A	US 5,557,677 A (PRYTZ) 17 September 1996 (17.09.1996), entire document.	1-56
A	US 4,723,283 A (NAGASAWA et al) 2 February 1988 (02.02.1988), entire document.	1-56
A	US 4,677,434 A (FASCENDA) 30 June 1987 (30.06.1987), entire document.	1-56
A	US 4,631,428 A (GRIMES) 23 December 1986 (23.12.1986), entire document.	1-56